

1	400	34.1	2032	4	US-09-045-884A-1	Sequence 1, Appl
2	235.2	20.1	2156	2	US-08-899-514-1	Sequence 1, Appl
3	196.8	16.8	2134	1	US-08-655-878-1	Sequence 1, Appl
4	148.8	12.7	2409	3	US-09-263-023-3	Sequence 3, Appl
5	133	11.3	2150	3	US-09-263-023-3	Sequence 1, Appl
6	64.6	5.5	43280	2	US-08-604-227C-1	Sequence 1, Appl
7	57.8	4.9	731	4	US-09-040-984-6	Sequence 63, Appl
8	57.2	4.9	30001	1	US-08-125-468-1	Sequence 1, Appl
9	57.2	4.9	30001	2	US-08-174-933-1	Sequence 1, Appl
10	55.6	4.7	1931	2	US-09-130-114-2	Sequence 2, Appl
11	54.6	4.7	4689	4	US-09-105-537-3	Sequence 34, Appl
12	54.6	4.7	36778	4	US-09-105-537-5	Sequence 5, Appl
13	54.6	4.7	38506	3	US-09-320-878-1	Sequence 19, Appl
14	52.8	4.5	2580	3	US-09-050-863-2	Sequence 2, Appl
15	52.8	4.5	5452	2	US-09-130-114-1	Sequence 1, Appl
16	52.8	4.5	9600	4	US-07-884-811-1	Sequence 1, Appl
17	52.8	4.5	10596	1	US-07-884-811-1	Sequence 15, Appl
18	52.8	4.5	10596	1	US-07-885-971-15	Sequence 15, Appl
19	52.8	4.5	10596	1	US-08-087-782A-15	Sequence 15, Appl
20	52.8	4.5	10596	1	US-08-194-088B-15	Sequence 15, Appl
21	52.8	4.5	10596	2	US-08-194-088B-15	Sequence 15, Appl
22	52.8	4.5	10596	2	PCN-US93-04648-15	Sequence 15, Appl
23	52	4.4	4897	6	5196516-7	Sequence 15, Appl
24	50.4	4.3	674	3	US-09-065-811-1	Patent No. 5196516
25	50.4	4.3	674	4	US-09-543-106-1	Sequence 1, Appl
26	50.4	4.3	1734	6	5352575-8	Sequence 1, Appl
27	50.2	4.3	2846	4	US-09-613-182-5	Patent No. 5352575
						Sequence 5, Appl

Query	Match	34.1%	Score 400:	DB 4:	Length 2032:
Best Local Similarity	63.6%	Pred. No. 3.1e-75:			
Matches 645:	Conservative	0:	Mismatches 360:	Indels	9: Gaps
QY	118 gatcgtgtgcacgtgtgcgtgtgtctctctctgtgagcgtccggccatctctcttgagccag	177			
Db	302 gagcgatgcacggtgcgtgtcttctctctctgcgtcttgctctcttttctgtgggacg	361			
QY	178 ctcttcagccagacccccgaagctcttctactatgtagagccgcgtgtgcatgtgtgaac	237			
Db	362 ctcttttggcagcagaccagatgtttctactatgtagagccgcgtgtgcatgtgtgaag	421			
QY	238 acctcttgcgagggcgagcgcgcgcaacgctgtcacatgtgcgcgtgtgcagcttatgtgcgtct	297			
Db	422 acctcttaagacgagccgcgcctgtgactgtcacatgtcgtgtcggagatctgttaacggacc	481			
QY	298 atctcttttgcagacatgtgacgtgtgttctgtctactaatgtccacagag--ccgaacctgt	354			
Db	482 gttctcttgtgcagacatgtgcgtcttctgtgtcctacatgtgaacctgttcccgaggacag	541			
QY	355 tccgcgcttttcaactgtggacagagccgcgcgcgtgtgtctgcgcgcgcgcgcgtgtgcgc	414			
Db	542 tccagcctcttctcatgtggagagacagccgggcgtgttttctgtgcacctgtgcctgtgaatc	601			
QY	415 ttcccccgagggacatcatcagacagcagcagctatgcagacacgtgtgacgcgcgcgcgc	474			
Db	602 atcccaacaagatgaatcatctatcccccgggtcctactgtgcagcgtctctgtgtgaftcaacagcc	661			
QY	475 ttccacccatccacccacccacccacccacccacccacccacccacccacccacccacccaccc				

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1      RESULT      2      1-1
2      US-08-899-514-1
3      ; Sequence 1, Application US/08899514
4      ; Patent No. 5910581
5      ; GENERAL INFORMATION:
6      ; APPLICANT: HABUCHI, OSAMI
7      ; APPLICANT: FUKUTA, MASAKAZU
8      ; TITLE OF INVENTION: POLYPEPTIDE OF GLYCOSAMINOGLYCAN
9      ; TITLE OF INVENTION: SULFOTRANSFERASE ORIGINATING FROM HUMAN AND DNA CODING
10     ; TITLE OF INVENTION: FOR THE POLYPEPTIDE
11     ; NUMBER OF SEQUENCES: 9
12     ; CORRESPONDENCE ADDRESS:
13     ; ADDRESSEE: KNOBBE, MARTENS, OLSON & BEAR, LLP
14     ; STREET: 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR
15     ; CITY: NEWPORT BEACH
16     ; STATE: CALIFORNIA
17     ; COUNTRY: US
18     ; ZIP: 92660
19     ; COMPUTER READABLE FORM:
20     ; MEDIUM TYPE: Floppy disk
21     ; COMPUTER: IBM PC compatible
22     ; OPERATING SYSTEM: PC-DOS/MS-DOS
23     ; SOFTWARE: PatentIn
24     ; CURRENT APPLICATION DATA:
25     ; APPLICATION NUMBER: US/08/899,514
26     ; FILING DATE:
27     ; CLASSIFICATION: 435
28     ; PRIOR APPLICATION DATA:
29     ; APPLICATION NUMBER:

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[illegible]

[illegible]


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?      FEATURE:      CDS
?      NAME/KEY:     20010..31199
?      LOCATION:
?      FEATURE:
?      NAME/KEY:     CDS
?      LOCATION:     31232..36067
?      FEATURE:
?      NAME/KEY:     CDS
?      LOCATION:     36249..41774
US-08-804-227C-1

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query Match	5.5%;	Score 64.6;	DB 2;	Length 43280;
Best Local Similarity	44.7%;	Pred. No. 4.4e-05;		
Matches 305;	Conservative 0;	Mismatches 369;	Indels 9;	Gaps 1,

[illegible]

RESULT 7
US-09-040-984-63
Sequence 63, Application US/09040984
Patent No. 6210883
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Wang, Tongtong
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS

TITLE OF INVENTION: OF LUNG CANCER
 NUMBER OF SEQUENCES: 86
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED AND BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US//09/040,984
 FILING DATE: 18-MAR-1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Makl, David J.
 REGISTRATION NUMBER: 31,392
 REFERENCE/DOCKET NUMBER: 210121.456
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-622-4900
 TELEFAX: 206-282-6031
 TELEX:
 INFORMATION FOR SEQ ID NO: 63:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 731 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-09-040-984-63

Query Match	4.9%	Score 57.8	DB 4	Length 731
Best Local Similarity	58.4%	Pred. No. 0.00061		
Matches 101	Conservative	0	Mismatches 72	Indels 0
			Gaps	0

QY	515	tggtgctcaagagagtgctgctctctcaacactgcaggtgtgctctacccgctgtcacaagcacc	574
Db	3	TAGTCATTAAGGCTGTGGCGCTTCGACGATGGCGCTGTTGGCCGCACCTGCTGGCAGACC	62
QY	575	ccgcgcctcaacactgcgcatcgtgtcaactcgtgtgcgcacccgcggggcgcgtgtcgtgctccc	634
Db	63	CGGCGCTTGACCTCAAGGCTCATCCACTTGGTGGCGATGCCCGGCCGGGTGGCGAGTTCAC	122
QY	635	ggagagagcgaggccgcgatctgagacgcgagcaagagcatcgttgtgtggacacc	687
Db	123	GGATCCGCTCGGGCCACGCGCTCATCCCTGTGAAGCTTCAAGTGTGGTGGCAGAC	175

RESULT 8
 US-08-125-468-1/C
 Sequence 1, Application US/08125468
 Patent No. 5589385
 GENERAL INFORMATION:
 APPLICANT: Ryan, Michael J.
 APPLICANT: Lotvin, Jason A.
 APPLICANT: Strachy, Nancy
 APPLICANT: Fanti, Susan E.
 TITLE OF INVENTION: Cloning of the biosynthetic pathway for
 TITLE OF INVENTION: chlorotetracycline and tetracycline formation and cosmi
 TITLE OF INVENTION: useful therein
 NUMBER OF SEQUENCES: 1
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: American Cyanamid Company
 STREET: One Cyanamid Plaza
 CITY: Wayne
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07470
 COMPUTER READABLE FORM:

SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 1931
TYPE: DNA
ORGANISM: EBNA
US-09-130-114-2

Query Match 4.7%; Score 55.6; DB 2; Length 1931;
Best Local Similarity 44.7%; Pred. No. 0.0021;
Matches 217; Conservative 0; Mismatches 269; Indels 0; Gaps 0;

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QY 476 tcaagctggccggagagctgacgctcctacagcagcgtggtcctaaggaggtgct 535
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 450 tctctcccgctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctc 509
QY 536 tctcaacgtgacgtgtctacccgctgctcagcgacccgacgacgtcagcgtc 595
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 510 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 569
QY 596 tgcacgtgtgctgacccgacggtgctgctcgtcccggtgagcggtgacgac 655
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 570 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 629
QY 656 tggcagcgacacagcgtgctggtgacacagcaggtggtgagcgacgtc 715
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 630 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 689
QY 716 acgtgacgtgacgtgacgtgacgtgacgtgacgtgacgtgacgtgacgtgac 775
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 690 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 749
QY 776 tcaagcgacacgtctggtgacggtcgtgacggtcgtgacggtcgtgacggtcgt 835
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 750 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 809
QY 836 gggagcgctggtgacgacgtcgtgacgacgtcgtgacgacgtcgtgacgacgtc 895
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 810 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 869
QY 896 agctcgagcgctgacgtgacgtgacgtgacgtgacgtgacgtgacgtgacgtgac 955
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 870 tctctcccgctcccgctcgtctcctcccgctcccgctcccgctcccgctcccgctc 929
QY 956 cctctcc 961
    ||| |||
Db 930 ccgtcc 935
```

RESULT 11
US-09-105-537-34
Sequence 34, Application US/09105537A
Patent No. 6265202
GENERAL INFORMATION:
APPLICANT: Sherman, D.H.
APPLICANT: Liu, H.
APPLICANT: Xue, Y.
APPLICANT: Zhao, L.
TITLE OF INVENTION: DNA encoding methymycin and pikromycin
FILE REFERENCE: 600.438US1
CURRENT APPLICATION NUMBER: US/09/105.537A
CURRENT FILING DATE: 1998-06-26
NUMBER OF SEQ ID NOS: 43
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 34
LENGTH: 4689
TYPE: DNA
ORGANISM: Streptomyces venezuelae
US-09-105-537-34

Query Match 4.7%; Score 54.6; DB 4; Length 4689;
Best Local Similarity 44.2%; Pred. No. 0.0038;

Matches 225; Conservative 0; Mismatches 284; Indels 0; Gaps 0;

```
QY 582 caactctgcatctgacacgtgtgacgacccggtgctgtcgtctcccggtgagc 641
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3408 ccaccacggagcgaaacactctctctctgtagccgacgagcggtgacgaccccgagc 3467
QY 642 ggcgggacgatactggtgacgacgacgacgacgacgacgacgacgacgacgacgac 701
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3468 caccacactaacccgacgacacgacgacgacgacgacgacgacgacgacgacgacgac 3527
QY 702 ggaagcgacacacacacacacacacacacacacacacacacacacacacacacac 761
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3528 cgtcgcgcacacacacacacacacacacacacacacacacacacacacacacacac 3587
QY 762 cgaagcgacacacacacacacacacacacacacacacacacacacacacacacac 821
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3588 caccgcgctctctacacacacacacacacacacacacacacacacacacacacacac 3647
QY 822 cgaagacacacacacacacacacacacacacacacacacacacacacacacacacac 881
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3648 ggaagacacacacacacacacacacacacacacacacacacacacacacacacacac 3707
QY 882 gacacacacacacacacacacacacacacacacacacacacacacacacacacacac 941
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3708 gctcgcgcacacacacacacacacacacacacacacacacacacacacacacacac 3767
QY 942 caagcacaacacacacacacacacacacacacacacacacacacacacacacacacac 1001
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3768 cagcgacacacacacacacacacacacacacacacacacacacacacacacacacacac 3827
QY 1002 ggcgcacacacacacacacacacacacacacacacacacacacacacacacacacac 1061
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3828 ggcgcacacacacacacacacacacacacacacacacacacacacacacacacacac 3887
QY 1062 gcaactgtggtacacacacacacacacacacacacacacacacacacacacacacac 1090
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3888 catggcgcggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 3916
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RESULT 12
US-09-105-537-5
Sequence 5, Application US/09105537A
Patent No. 6265202
GENERAL INFORMATION:
APPLICANT: Sherman, D.H.
APPLICANT: Liu, H.
APPLICANT: Xue, Y.
APPLICANT: Zhao, L.
TITLE OF INVENTION: DNA encoding methymycin and pikromycin
FILE REFERENCE: 600.438US1
CURRENT APPLICATION NUMBER: US/09/105.537A
CURRENT FILING DATE: 1998-06-26
NUMBER OF SEQ ID NOS: 43
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5
LENGTH: 36778
TYPE: DNA
ORGANISM: Streptomyces venezuelae
US-09-105-537-5

Query Match 4.7%; Score 54.6; DB 4; Length 36778;
Best Local Similarity 44.2%; Pred. No. 0.0052;
Matches 225; Conservative 0; Mismatches 284; Indels 0; Gaps 0;

```
QY 582 caactctgcatctgacacgtgtgacgacccggtgctgtcgtctcccggtgagc 641
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Db 30398 ccaccacggagcgaaacactctctctctgtagccgacgagcggtgacgaccccgagc 30457
QY 642 ggcgggacgatactggtgacgacgacgacgacgacgacgacgacgacgacgacgac 701
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30458 caccacactaacccgacgacacgacgacgacgacgacgacgacgacgacgacgacgac 30517
```


US-09-050-863-2

Query Match	4.58;	Score 52.8;	DB 3;	Length 2580;
Best Local Similarity	42.98;	Pred. No. 0.0082;		
Matches 316;	Conservative 0;	Mismatches 417;	Indels 3;	Gaps 1.

[illegible]

RESULT 15
MS-09-130-

US-09-130-114-1
: Sequence 1, Application US/09130114
: Patent No. 5976807
: GENERAL INFORMATION:
: APPLICANT: HOTLICK, Robert A.
: APPLICANT: DamaJ, Bassam B.
: APPLICANT: Robbins, Alan K.
: TITLE OF INVENTION: Eukaryotic Cells Stably Expressing Genes
: TITLE OF INVENTION: From Multiple Transfected Epsomes
: FILE REFERENCE: 0867/1D9030US1
: CURRENT APPLICATION NUMBER: US/09/130.114
: CURRENT FILING DATE: 1998-08-06

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; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 3.0
;
; SEQ ID NO 1
;
; LENGTH: 5452
;
; TYPE: DNA
;
; ORGANISM: YEBNA
;
US-09-130-114-1

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Query Match Similarity	4.5%:	Score 52.8:	DB 2:	Length 5452:
Best Local Similarity	42.9%:	Pred.	No. 0.0092:	
Matches 316;	Conservative	0;	Mismatches 417;	Indels 3; Gaps 1;
OY	400	cgcgacctgagcgtcttcgccggagacacatlcagacaagcaaggactatgaagaacatg	459	
DB	1305	ctctccccccttgctcttttcaagactcccccccctgctcttccaagtctctaaccggcg	1364	
OY	460	tgcacgcgagcagcatcagaacctggcccggagagccctgcctcttaagcaagttagt	519	
DB	1365	ggcctccaatactctctcgcagaccggccttccatactactctctogaacccggctctcac	1424	
OY	520	ctcaaggagtggtgcgtttcttcaacctgaagtgctcttacccgctgtctaagaaaccggcg	579	
DB	1425	ctctctcgaccccgagctccacactctctctgctctccgctctctctctctctctgcctg	1484	
OY	580	ctcaaocrtgcgatctgtgacacctgtgtgcgaacccggggccgctgtgcctctccggag	639	
DB	1485	ctctctgcctctctctgcctccctctctgctctctgcctccctcccgccctctctctgc	1544	
OY	640	ggcgcgggggcccatattctgtgacgcagacaagycalcgttgtgtgagaccaagcggaatgg	699	
DB	1545	ctgcctctctctgctctctgctgcctctctgcctccctccctctcctgcctctgcctcc	1604	
OY	700	gtcgagggcggaacctcaacctgcgctggaattcgcgaggtgtgtcgacgaacgctgcgcatc	759	
DB	1605	ctctcgtctctctgctccctctgcctctgcctctcgtctcgcctctctgcctctctgct	1664	
OY	760	gccgagggccgcacacatcaagccgcacacctctctcggcgcgctaacgcctggttgggc	819	
DB	1665	ccccctctgccc---ctcctgtctcctgccccctctcgtctcgcctctctgcctctgc	1721	
OY	820	ttcgaggaacctgtggcgggagccgctgtgagagatccgcgcacatctaaaccttaaccggc	879	
DB	1722	ctctctgctctctgcctctctgcctctgcctccctcgcctctcctctcctgcctctgctc	1781	
OY	880	ctgaacctcaacgcacagatcgcgaagcgttgcatacacaatatcaaccacagggctcgggatac	939	
DB	1782	ctgcgccctctctgcctctctgcctctcctcctgcctcgcctccctctcctgcctcc	1841	
OY	940	ggcaaggaacatcgaagccttccataacttcgtctlaaggaatgcgcgcaagctctccaagcc	999	
DB	1842	ctgcgccctctgcctccctctctctctgctctcgcctccctccctccctccctcctgcgc	1901	
OY	1000	tggcgcgcaagcttgccctctcaataagatcctgcgcgtgcagaggaagtgtgcgcggcg	1059	
DB	1902	ctctctctgctctgcgcctctcgcctctgcacactctgcctctcctctcctctgcctctg	1961	
OY	1060	ctgcagactgtctgggctaacggcctgtgtactctgtgcgaccagcagctgcactcaacctg	1119	
DB	1962	ccctctctctgtctcctgcgcctctcctctcgtctcctgcctccctccctcctgcctcc	2021	
OY	1120	gattgt	1135	
DB	2022	ctctctgtctctgtcccc	2037	

Search completed: January 31, 2002, 18:11:04
Job time: 10808 sec